Showcasing research by Szymon Chorazy, Michal Rams, Anna Hoczek, Bernard Czarnecki, Barbara Sieklucka, Shin-ichi Ohkoshi and Robert Podgajny from Jagiellonian University in Kraków (Poland) and University of Tokyo (Japan)

Structural anisotropy of cyanido-bridged $\{\text{Co}^{II}_{9}\text{W}^{VI}_{6}\}$ single-molecule magnets induced by bidentate ligands: towards the rational enhancement of an energy barrier

Different $\{\text{Co}_{9}\text{W}_{6}(2,2'\text{-bpdo})_{7}\text{(MeOH)}_{10}\}$ and $\{\text{Co}_{9}\text{W}_{6}(2,2'\text{-bpdo})_{6}\text{(MeOH)}_{12}\}$ cluster forms co-crystallize in one molecular network. Structural axial distortion and slow magnetic relaxation parameters of cyanido-bridged $\{\text{Co}_{9}\text{W}_{6}\}$ super-complexes are controlled by a number of chelating $2,2'\text{-bpdo}$ ligands.

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